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E6
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592 S1
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? s s1 and phosphodiester
             592
                  PHOSPHODI ESTER
           37178
      S3
              13 S1 AND PHOSPHODI ESTER
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 4/3, K/1
            (Item 1 from file: 98)
DIALOG(R) File 98: General Sci Abs
(c) 2009 The HW Wilson Co. All rts. reserv.
           H. W WILSON RECORD NUMBER: BGSI 93015609
Modification of antisense phosphodiester oligodeoxynucleotides by a
  5' chol esteryl moiety increases cellular association and improves
  efficacy
Kriea, Arthur M
Tonkinson, John; Matson, Sara
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10644052cpgA. t xt
Proceedings of the National Academy of Sciences of the United States of America (Proc Natl Acad Sci U.S.A.) v. 90 (Feb. 1 93) p. 1048-52
SPECIAL FEATURES: bibl il I ISSN: 0027-8424
 LANGUAGE: English
COUNTRY OF PUBLICATION: United States
Modification of antisense phosphodiester oligodeoxynucleotides by a
  5' cholesteryl moiety increases cellular association and improves
   efficacy.
Krieg, Arthur M
                 (Item 1 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society, All rts. reserv.
   150258230
                   CA: 150(13) 258230u
                                                   PATENT
   Combination motif immune stimulatory oligonucleotides with improved
   activity
   INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M.; Hanson, Douglas
Charles; Samulowitz, Ulrike
LCCATION: USA
   ASSIGNEE: Pfizer Inc.; Coley Pharmaceutical Group, Inc.; Coley
Pharmaceutical G.m.b.H.
   PATENT: PCT International; WO 200922215 A1 DATE: 20090219
   APPLICATION: WO 2008I B2102 (20080805) *US 2007PV964477 (20070813) PAGES: 73pp. CODEN: PLXXD2 LANGUAGE: English
   PATENT CLASSI FLOATIONS:
      IPCR/8 + Level Value Position Status Version Action Source Office:
                                 A I F B 20060101
A I L B 20060101
        A61K-0031/7088
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        C12N-0015/11
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  DESIGNATED COUNTRIES: AE; AG; AL;
N/ BY; BZ; CA; CH; CN; CO; CR; CU;
                                                  AM; AO; AT;
CZ; DE; DK;
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                            NO; NZ;
         NÃ; NÃ; NI; NC; NC; LV, T-3, 1;; TR DĒSI CNĀTED REGIONAL; AI; DE; SM ST; SV; SV; TJ; TM; TN; TR; DĒSI CNĀTED REGIONAL; AI; DE; SV; SV; SV; SV; TV; BF; CB; CR; HR; HU; IE; IS; IT; LT; LU; L N.; NC, PL; PT; RC; SS; SS; SK; TR; BF; BJ; CF; CB; CJ; CM; CA; NL; NC, NE; SN; TD; TG; BW; CH; CM; KE; LS; MW; NZ; NA; SD; SL; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
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 SK; SL; SM; ST; S
CY; CZ; DE; DK;
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МТ:
    GW, M.; MR; NE;
UG; ZM; ZW; AM;
 4/3, K/3
                 (Item 2 from file: 399)
DIALOG(R) FILE 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
                  CA: 145(15)291047j
   145291047
                                                    PATENT
   Immunostimulatory oligonucleotides with stabilized internucleotide
  linkage for treating cancer, allergy, asthma and infection
INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg
   LOCATION: USA
  ASSIGNEE Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
PATENT: PCT international; WO 200691915 A2 DATE: 20060831
APPLICATION: WO 2006US6778 (20060224) US 2005PV655931 (20050224)
                     CODEN: PLXXD2 LANGUAGE: English
   PAŒS: 93pp.
   PATENT CLASSI FI CATI ONS:
      CLASS: A61K-000/ A
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   DESI GNATED COUNTRI ES:
                                 AE: AG: AL:
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BZ; CA; CH; CN; CO; CR;
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GE: GH: GM: HR: HU: ID:
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MK; MN; MW; MK; MZ; NA;

Page 2

NG: NI: NO: NZ:

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LU; LV; LY;

PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY;

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VN; YU; ZA DESIGNATED REGIGNAL: AT; BE; BG; CH
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS;
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
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4/3. K/4 (Item 3 from file: 399) DIALOG(R) File 399; CA SEARCH(R)

UA: UG: US: UZ:

(c) 2009 American Chemical Society. All rts. reserv.

VC:

142462266 CA: 142(25)462266z PATENT CpG immunostimulatory nucleic acids and oligonucleotide analogs for enhancing immune response of vaccines against infection, allergy and

INVENTOR(AUTHOR): Uhlmann, Eugen; Vollmer, Joerg; Krieg, Arthur M; Noll, Bernhard O

CLASS: A61P-031/00B: A61P-037/08B; A61P-035/00B AT; AU; AZ; BA; BB; BG; BR A61K-039/39A: DESIGNATED COUNTRIES: AE; AG; AL; AM BR; BW BY: DE, EC, KP, ĒE, CA; CH; CN; CO; CR; CU; CZ; DK: DM DZ; ĒĠ FI: GB: œ: ĬĎ; īS; JP: KE; KĠ KR; KZ: ĠΜ HR: HU; TL; IN; LR; LS: NO. NZ; LU: LV: MA; MD; MG; MK: MN, MW MX: MZ; NA: NI: PG: PH: PL: SY, ŤĴ; RO; RU; SC; SD; SE; SG; SK: SL: TM TN: UG US DESIGNATED REGIONAL: BW GH; GW, KE MW TM: AT GW ML;

4/3, K/5 (Item 4 from file: 399) DIALOG(R) FILE 399: CA SEARCH(R)

(c) 2009 American Chemical Society. All rts. reserv.

CA: 142(20) 372464h PATENT 142372464 Compositions comprising immunostimulatory nucleic acid-lipophilic conjugates and antigen or therapeutic agent for treating allergy, cancer, infection and autoimmune disease INVENTOR(AUTHOR): Vollmer, Joera: Kriea, Arthur M.: Uhlmann, Eugen LOCATION: USA

ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH PATENT: PCT International; WD 200530259 A2 DATE: 20050407 APPLICATION: WD 2004081748 (20040927) * US 2003PV505977 (20030925) PAGES: 120 pp. CODEN PIXXD2 LANGUAGE: English

PAGES: 120 pp. CODEN: PATENT CLASSIFICATIONS:

CLASS: A61K-047/48A DESIGNATED COUNTRIES: AE: AG AL: AM AT: AU: AZ; BA: BB: BG: BR: BW EC, CN: CO: CR: CU: CZ: DE: DM DZ: EE: EG ES: FI: BZ; CA; CH; DK: CB: Œ: JP; GE; GH; GM; HR; HU; ID; TL; I N: IS; KE; KG KP KR; KZ; LK; LR; LS; LU; LV: MN: MX: NI, NZ, MA; MD; MG; MK; MW MZ: NA: NO: **CM** PH: PL: SC; SL; SY; SD; SE; SG SK: TJ: TM TN: TT: UA: UG: RO: RU: TR: TZ US: FLF; VC; VN; VU; ZA; ZM; ZW; DESIGNATED PEGIGNAL: BW, GH; GM; KE; LS; WW MZ; VC; VN; VU; ZA; ZM; ZW; ZW; AW; AZ; BY; KQ; KZ; MZ; MU; TJ; TM; AT; BE; BQ; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RQ; SE; SF; SK; TR; BF; BU; CF; CQ; CI; CM; GA; GN; GQ; GW; M; NL;

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(Item 5 from file: 399)
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DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society, All rts. reserv.
     140230578
                                     CA: 140(15)230578h
                                                                                             PATENT
     Sequences of immunostimulatory oligonucleotides and therapeutic use for
     i mine related diseases
     INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg;
Uhlmann, Eugen; Jurk, Marion; Lipford, Grayson; Rankin, Robert
     LOCATION: USA
LOCATION: DS: ASSIGNED ASSIGNE
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          CLASS:
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   4/3, K/7
                               (Item 6 from file: 399)
DIALOG(R) FILE 399: CA SEARCH(R)
(c) 2009 American Chemical Society, All rts. reserv.
                                      CA: 138(14) 203655h
                                                                                              PATENT
     Oigonucleotides containing stimulatory phosphorothicate motif and
     neutralizing motif for treating infections, allergies and cancers INVENTOR(AUTHOR): Krieg, Arthur M; Vollmer, Jorg; Ulhman, Eugen
     LOCATION: USA
     ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical G.m.b.H.
     University of Iowa Research Foundation
PATENT: PCT International; WO 200315711 A2 DATE: 20030227
     APPLICATION: WO 2002US26468 (20020819) *US PV313273 (20010817) *US
PV393952 (20020703)
     PAGES: 115 pp.
                                              CODEN: PIXXD2 LANGUAGE: English
     PATENT CLASSIFICATIONS:
          CLASS:
                              A61K-000/A
     DESI GNATED COUNTRI ES:
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   4/3, K/8
                                (Item 7 from file: 399)
DIALOG(R) File 399; CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
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PATENT Immunostimulatory nucleic acid molecules Page 4

135018544

CA: 135(2) 18544w

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INVENTOR(AUTHOR): Krieg, Arthur M.; Kline, Joel N.
      LOCATION: USA
      ASSIGNEE: University of Iowa Research Foundation; Coley Pharmaceutical
 Group, Inc.; United States Dept. of Health and Human Services
     PATENT: United States; US 6239116 B1 DATE: 20010529
APPLICATION: US 960774 (19971030) *US 738652 (19961030)
      PACES: 74 pp., Cont.-in-part of U.S. Ser. No. 738, 652. CODEN: USXXAM
      LANGUAGE: English
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           CLASS: 514044000; A61P-037/06A
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                               (Item 8 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2009 American Chemical Society, All rts, reserv.
                                   CA: 133(25)349133e
                                                                                             PATENT
      Screening for immunostimulatory DNA functional modifiers
      INVENTOR AUTHOR): Noll, Berhard O.; Schetter, Christian; Krieg, Arthur M.
      LOCATION: Germany,
      ASSIGNEE: CPG Immunophar maceuticals G.m.b.H.; University of Iowa Research
 Foundat i on
                        PCT International; WO 200067023 A1 DATE: 20001109
      PATENT:
      APPLI CATI ON: WO 2000US11697 (20000428) *US PV131830 (19990429) *US
PV186845 (20000303)
PAGES: 95 pp. CODEN: PLXXD2 LANGUAGE: English
PATENT CLASSIFI CATIONS:
           CLASS: Q01N-033/50A; Q01N-033/68B; C12Q-001/68B; Q07K-014/47B
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LI; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
MK; MN; MN; MX; NQ; NZ; PL; PT; RQ; RU; SD; SE; SQ; SI; SK; SL;
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IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LV; IT, 909, 907, 6E; GH; GM; HR; HL; ID; MX; MN; MM; KN; NC; NZ; PL; PT; FC; RU; SD; SE; SG; SI; SK; SL; TJ; LV; MX; MN; MN; MN; MN; NC; NZ; PL; PT; FC; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; WN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MZ; HL; TJ; TM; DES; GNATED FEG; ONAL: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GH; IE; TI; LU; MC; NL; PT; SE; BF; BJ; GF; GG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG
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   4/3, K/10
                                  (Item 9 from file: 399)
 DIALOG(R) File 399; CA SEARCH(R)
 (c) 2009 American Chemical Society. All rts. reserv.
                                    CA: 123(21)274918x
                                                                                            CONFERENCE PROCEEDING
      Uptake and localization of phosphodiester and chimeric
      oligodeoxynucleotides in normal and leukemic primary cells
AUTHORISS: Krieg, Arthur M.
Au
   4/3. K/11
                                   (Item 10 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
 (c) 2009 American Chemical Society. All rts. reserv.
                                    CA: 119(17)173523b
                                                                                            J OURINAL
      Comparison of cellular binding and uptake of antisense phosphodiester,
      phosphor of hi oat e, and mixed phosphor of hi oat e and met hyl phosphonat e
      ol i gonucl eot i des
 oingunicieurites
AUTHOR(S): Zhao, Gluyan; Matson, Sara; Herrera, Charles J.; Fisher, Eric;
Yu, Hong; Krieg, Arthur M
LCCATION: Coll. Med., Univ. Iowa, Iowa City, IA, USA
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DATE: 1993 VOLUME: 3 NUMBER: 1 PAGES:
  JOURNAL: Antisense Res. Dev.
53-66 CODEN: AREDEI ISSN: 1050-5261 LANGUAGE: English
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? e au=samulowitz, urike?
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25 AU-SAMULOW TZ, ULRI KE

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E1
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>>>Records from unsupported files will be retained in the RD set.
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7/3. K/1
             (Item 1 from file: 399)
DI ALOG( R) File 399: CA SEARCH( R)
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10644052cpgA txt

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150258230
                 CA: 150(13) 258230u
                                               PATENT
   Combination motif immune stimulatory oligonucleotides with improved
   activity
   INVENTOA(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M.; Hanson, Douglas
Charles: Samulowitz, Ulrike
LCCATION: USA
   ASSIGNEE: Pfizer Inc.; Coley Pharmaceutical Group, Inc.; Coley
Pharmaceutical G.m.b.H.
   | PATENT: PCT International; WO 200922215 A1 DATE: 20090219
| APPLICATION: WO 2008 B2102 (2008805) US 2007PV964477 (20070813)
| PAGES: 73pp. CODEN: PLXID2 LANGUAGE: English
   PACES: 73pp. CODEN. PIXXO2`LANGUACE: English
PATENT CLASSIFICATIONS:
IPCRI8 + Level_Value Position Status Version Action Source Office:
        A61K-0031/7088
                              A I F B 20060101
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        C12N-0015/11
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   DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT;
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BW BY; BZ; CA; CH; CN; CO; CR;
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by BB: GD; GE; GH; KP; KR; KZ; LA; LC; MY; MZ; NA; NG; NI; SK; SL; SM ST; SV; CY; CZ; DE; DK; E
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7/3, K/2 (Item 2 from file: 399)
DIALOQ(R) File 399: CA SEAROH(R)
(c) 2009 American Chemical Society, All rts. reserv.
                  CA: 145(15)291047j
                                             PATENT
   Immunostimulatory oligonucleotides with stabilized internucleotide
   linkage for treating cancer, allergy, asthma and infection
INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg
   LOCATION: USA
   ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
PATENT: PCT International; WD 200691915 A2 DATE: 20060831
APPLICATION: WD 2006US6778 (20060224) *US 2005PV655931 (20050224)
PAGES: 93pp__000EN: PIXXD2_LANGLAGE: English
   PATENT CLASSIFICATIONS:
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DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
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140230578 CA: 140(15) 230578h PATENT Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases Page 7

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10644052cpgA. t xt
  INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg;
Uhlmann, Eugen; Jurk, Marion; Lipford, Grayson; Rankin, Robert
  LCCATION: USA
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GrbH
PATENT: PCT International; WD 200416805 A2 DATE: 20040226
APPLICATION: WD 20031825935 (20030819) *US PV404479 (20020819) *US
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PV404820 (20020819) *US PV429701 (20021127) *US PV447377 (20030214) PAGES: 276 pp. CODEN: PLXXD2 LANGUAGE: English
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DIALOG(R) FILE 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
  138203655 CA: 138(14)203655h PATENT
Cligonucleotides containing stimulatory phosphorothicate motif and
neutralizing motif for treating infections, allergies and cancers
INVENTOCI(AUTIOP): Krieg, Arthur M; Vollmer, Jorg; Uhman, Eugen
   LOCATION: USA
   ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical G.m.b.H.
  University of Iowa Research Foundation
PATENT: PCT International; WD 200315711 A2 DATE: 20030227
   APPLI CATI ON: WO 2002US26468 (20020819) *US PV313273 (20010817) *US
PV393952 (20020703)
   PACES: 115 pp. CODEN:
PATENT CLASSIFICATIONS:
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>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
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13/3, K/1 (Item 1 from file: 393)
DIALOG(R) File 393: Beilstein Database - Abstracts
(c) 2008 Beilstein GmbH. All rts. reserv.
Beilstein Abstract Id: 6219964
Title: Influence of the Type of Junction in DNA-3'-Peptide Nucleic Acid
(PNA) Chimeras on Their Binding Affinity to DNA and FNA
Document Type: Journal Pecord Type: Abstract

Pecord Type: Abstract

Document Type: Journal Pecord Type: Abstract
                Greiner, Beate; Breipohl, Gerhard; Uhlmann, Eugen
   Citation: Helv. Chim Acta (1999) Series: 82-12, 2151 - 2159 CODEN: HCACAV
                    Language: English
   Abstract Language: English
  Author: Greiner, Beate; Breipohl, Gerhard; Uhlmann, Eugen ... Abstract: duplex stabilization was determined to be in the order OJS
                ca. NH, reordering the phosphodiester bridge the most favored linkage at the DNA/PNA juction. The observed strong
                 dupl ex-dest abi l i zi ng. . .
13/3, K/2 (Item 2 from file: 393)
DIALOG(R) File 393: Beilstein Database - Abstracts
(c) 2008 Beilstein GmbH. All rts. reserv.
Beilstein Abstract Id: 5780737
   Title:
                  Nucl eot i de.
                                      XV.
                                                 Synt hese
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                 2'-Ot-Butyl dimet hyl silyl-5'-O monomet hoxytrityl ribonucleosid-3'-phosphotriestern, Ausgangssubstanzen fuer Gigonucleotid-Synt
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                iyoe: Journal Pecord Type: Abstract
Siber, Qunter; Flockerzi, Dieter; Varma, Pajendra Singh;
Charubala, Ramamurthy; Uhlmann, Eugen; Pfleiderer,
   Document Type: Journal
   Aut hor:
                 Wolf gang
   Citation: Helv. Chim Acta (1981) Series: 64-5, 1704-1716 CODEN: HCACAV
                     Language: German
   Abstract Language: English
   Aut hor:
                 Silber, Gunter; Flockerzi, Dieter; Varma, Rajendra Singh;
                 Charubala, Ramamurthy; Uhlmann, Eugen; Pfleiderer,
  Wolfgang ... Abstract: 15-23 with free HO-C(5') could be obtained by detritylation
                and the 3'-phosphodiester triethylammonium salts 24-32 by
                 deblocking of the cyanoethyl and the 2,5-dichlorophenyl group
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150258230 CA: 150(13)258230u PATENT
Combination motif immune stimulatory oligonucleotides with improved activity
INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M; Hanson, Douglas Page 10

(Item 1 from file: 399)

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13/3, K/3

DIALOG(R) File 399: CA SEARCH(R)

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Charles: Samulowitz, Ulrike
  LOCATÍON: USA
  ASSIGNEE: Pfizer Inc.; Coley Pharmaceutical Group, Inc.; Coley
Pharmaceutical G.m.b.H.
  PATENT: PCT International; WO 20080922215 A1 DATE: 20090219
APPLI CATION: WO 2008 B2102 (20080805) *US 2007PV964477 (20070813)
PAGES: 73pp__CODEN_PIXID2 LANGUAGE: English
  PATENT CLASSI FI CATI ONS:
     IPCR/8 + Level Value Position Status Version Action Source Office:
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13/3, K/4 (Item 2 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
  150001273
                   CA: 150(1)1273u
                                              PATENT
  PCR sequences of oligoribonucleotides for disease treatment INVENTOR(AUTHOR): Vollmer, Joerg; Uhlmann, Eugen
  LOCATION: Germany.
   ASSIGNEE: Colev Pharmaceutical G.m.b.H.
  PATENT: PCT International; WO 2008139262 A2 DATE: 20081120
APPLI CATION: WO 20071 B4593 (20071026) *US 2006PV854585 (20061026)
  PAŒS: 110pp.
                       CODEN: PIXXD2 LANGUAGE: English
  PATENT CLASSI FI CATI ONS:
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                  (Item 3 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
                    CA: 142(25)462266z
                                                  PATENT
  QpG immunostimulatory nucleic acids and oligonucleotide analogs for
  enhancing immune response of vaccines against infection, allergy and
  cancer
  INVENTOR(AUTHOR): Unimann, Eugen; Volimer, Joerg; Krieg, Arthur M.; Noll,
Bernhard O
  LOCATION: Germany,
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ASSIGNEE: Coley Pharmaceutical G mb.H.; Coley Pharmaceutical G oup, inc. PATENT: PCT international; WO 200542018 A2 DATE: 20050512 APPLICATION: WO 2005412868240 (20041028); US 2003PV516193 (20031030)
                             CODEN: PLXXD2 LANGUAGE: English
PAŒS: 113 pp.
PATENT CLASSIFICATIONS:
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CLASS: A61K-039/39A; A61P-031/00B; A61P-037/08B; A61P-035/00B DESIGNATED COUNTRIES: AE; AG; AL; AM AT; AU; AZ; BA; BB; BG; BR; BY ĒE, CN; CO; CR; CU; CZ; DE; DK; DM DZ; EG. ES; CB: Œ) JP: GH; GM; HR; HU; ID; IL; IN. ĪS: KE; KG; KP; LC; KR: KZ: LK: LR: LS: LT; LU; LV; MA; MD; MG; MK; MZ; NA; NI; NO; NZ; MN; MW MX PG: PH; PL: RO; RU; SC; SD; SE; SG; SK, SY; TT; UG SL; TJ; TM; TN; LS; MW, MZ

13/3, K/6 (Item 4 from file: 399) DIALOG(R) File 399: CA SEAROH(R) (c) 2009 American Chemical Society. All rts. reserv.

CA: 142(20) 372464h 142372464 PATENT Compositions comprising immunostimulatory nucleic acid-lipophilic conjugates and antigen or therapeutic agent for treating allergy, cancer, infection and autoimmune disease INVENTOR(AUTHOR): Vollmer, Joerg; Krieg, Arthur M; Uhlmann, Eugen LOCATION: USA ASSIGNES: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH PATENT: PCT International; WD 200530259 Az DATE: 20050407 APPLICATION: WD 20043031748 (20040927) * US 2003PV505977 (20030925) PAGES: 120 pp. CODEN PIXXD2 LANGUAGE: English PAŒS: 120 pp. CODEN: PATENT CLASSI FI CATI ONS: CLASS: A61K-047/48A

AZ; EC; KP; DESIGNATED COUNTRIES: AE; AG; AL; DE; AM AT: BA; BW(AU; BY: ĉΣ̈; ES; LC; CA; CH; CN; CO; CR; CU; DK; DM DZ; EE, ĒĞ, Fi : œ; œ; ĬD, IL, ΙN; JP: KE, GE; GH; GW; HR; HU; ĪS: KG KR: KZ: LK; LR: LS: MN. NI; PG; PΗ; LU; LV; MA; MD; MG; MK; MW MX; MZ: NA; NO: NZ: FO N. SC. SD. SE. SQ. SK. ST. SV. TJ. TM. TW. TF. TT. TV. UA. UG. VC. W. YU. ZA. ZM. ZW. ESI GAVED REGIONALE BW. GH. GW. KE. LS. W. W. A. SD. SL. SZ. TJ. ZW. ZW. ZW. AM. AZ. BY. KG. KZ. M. FU. TJ. TM. A BG. OH. CV. ESI. TZ. DG. ZM. ZW. AM. AZ. BY. KG. KZ. M. HU. IE. IT. LU. M. E. T. F. F. GB. GR. HU. IE. IT. LU. M. Z. T. ZW. ZW. TW. G. CO. C. CM. GA. GW. GQ. GW. M. F. T. BF. BJ. GF. GG. C. CM. GA. GW. GQ. GW. M. US: KE; LS; MW MZ J; TJ; TM; AT; CY; SE; TG

13/3, K/7 (Item 5 from file: 399) DIALOG(R) File 399: CA SEARCH(R) (c) 2009 American Chemical Society. All rts. reserv.

PATENT CA: 140(15) 230578h Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg; Uhlmann, Eùgen; Jurk, Marion; Lipford, Grayson; Rankin, Robert LCCATION: USA
ASSICNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GrbH
PATENT: PCT International; WD 200416805 A2 DATE: 20040226
APPLICATION: WD 2003US25935 (20030819) *US PV404479 (20020819) *US
APPLICATION: WD 2003US25935 (20030819) *US PV404479 (20020819) *US

PV404820 (20020819) *US PV429701 (20021127) *US PV447377 (20030214) PAŒS: 276 pp. CODEN: PLXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q-000/ A

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13/3, K/8 (Item 6 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
                   CA: 93(11)114908c
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  93114908
  New improvements in oligonucleotide synthesis by use of the
  p-nitrophenylethyl phosphate blocking group and its deprotection by DBU
AUTHOR(S): Uhlmann, Eugen; Pfleiderer, Wolfgang
LOCATION: Fac. Chem., Univ. Konstanz, D-7756, Konstanz, Fed. Rep. Ger.
JOUFNAL: Tetrahedron Lett. DATE: 1980 VOLUME: 21 NUMBER: 13 PAGES:
1181-4 CODEN: TELEAY ISSN: 0040-4039 LANGUAGE: English
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16/3, K/1 (Item 1 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
(c) 2009 CSA. All rts. reserv.

I P ACCESSION NO: 6931820

Toll-like receptor 9 binds single-stranded OpG-DNA in a sequence- and pHdependent manner

Putz, Mark; Metzger, Jochen; Gellert, Tanja; Luppa, Peter; Lipford, Gayson B; Wagner, Hermann; Bauer, Stefan Institute for Medical Microbiol ogy, Hygiene and Immunology, Munich, Germany, [mailto:stefan.bauer@rz.tumide]

European Journal of Immunology, v 34, n 9, p 2541-2550, 2004 PUBLICATION DATE: 2004

PUBLISHER: Wiley-VCH. Postfach 101161 Weinheim 69451 Germany [mailto:info@wilev-vch.del. [URL:http://www.wilev-vch.de/publish/en/]

DCCUMENT TYPE: Journal Article RECORD TYPE: Abstract LANGUAGE: English SUMMARY LANGUAGE: English I SSN: 0014-2980

TSUM: 2011-25 FILE SEOMENT: Immunology Abstracts Rutz, Mark; Metzger, Jochen; Gellert, Tanja; Luppa, Peter; Lipford, Grayson B; Wagner, Hermann; Bauer, Stefan

ABSTRACT:

that TLR9 binds directly and sequence-specifically to single-stranded unmet hyl at ed CpG-DNA containing a phosphodiester backbone. TLR9-CpG-DNA interaction occurs at the acidic pH (6.5-5.0) found...

16/3, K/2 (Item 1 from file: 399) DI ALOG(R) File 399: CA SEAROH(R)

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CA: 140(15)230578h PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg;

Uhlmann, Eùgen; Jurk, Marion; Lipford, Grayson; Rankin, Robert LOCATION: USA

LCCATION: USA
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
PATENT: PCT International; WO 200416805 A2 DATE: 20040226
APPLICATION: WO 2003US25935 (20030819) "US PV40447479 (20020819) "US
PV404820 (20020819) "US PV429701 (20021127) "US PV447377 (20030214)
PAGES: 276 pp. CODEN: PIXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:

CLASS: C12Q-000/ A DESIGNATED COUNTRIES: AE; AG; AL; AM AT; AU; AZ; BA; BB; BG; CA; CH; CN; CO; CR; CU; CZ; DE; GM; HR; HU; ID; IL; IN; IS; JP; LV; MA; MD; MG; MK; MN; MW; MK; EC, DE, DK, EE; ES; DMt DZ: FI: CB: GD: GE: GH: ĽČ; KE, KG KP; KR; KZ; LK; LR; LS; LT; LU; NI: NO; NZ; OM; PG; PH; PL; MZ, PT; RO; RU: Số Số SE Số SK: SK: SK: Tỷ: TÑU TN; TÑ: TỆ: TỆ: VÀ LOÀ LOÀ LỚ: VỚ: VỦ: VỦ: VÀ TỦ: AX AX BY KA SK: SK: TN; TÑU TN; TM DESIGNATED REGIONAL: CHI, GM, KE; LS; MV, MZ; SD; SL; SZ; TZ; UQ; ZM, ZW, AT; BE; BQ, QH; CY, CZ; DE; DK; EE; ES; FI; FR; GB; QH; KU; IE; ILU; MC; NL; PT; RQ; SE; SI; SK; TR; BF; BJ; CF; QQ; CI; CM; M; ME; SN; TĎ; TĞ ? e au=rankin, rob?

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DIALOG(R) File 399: CA SEARCH(R)
(c) 2009 American Chemical Society. All rts. reserv.
                CA: 140(15) 230578h
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                                        PATENT
  Sequences of immunostimulatory oligonucleotides and therapeutic use for
  i miune related di seases
  INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg;
Uhlmann, Eùgen; Jurk, Marion; Lipford, Grayson; Rankin, Robert
  LOCATION: USA
  ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GnbH
                                          Page 15
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10644052cpgA.txt
PATENT: PCT International ; WD 200416805 A2 DATE: 20040226
   APPLI CATI CN: WD 2003US25935 (20030819) *US PV404479 (20020819) *US
PV404820 (20020819) *US PV429701 (20021127) *US PV447477 (20030214) 
PAGES: 276 pp. CODEN: PI XXII LANGJAGE: English 
PATENT CLASSI FI CATIONS:
     CLASS: C12Q-000/ A
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SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU; ZA; ZW; AW; AZ; BY; KG; KG; MD; RU; TJ; TM; DESIGNATED REGIONAL: GH; GW; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DG; EE; ES; FI; FR; CB; GP; HU; IE; IT; LU; MC; NL; PT; FN; SE; SI; SK; TR; BF;
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2/3, K/1 (Item 1 from file: 103)
DIALOG(R) File 103: ENERGY SCITEC
(c) 2010 CONTAINS COPYRIGHTED MATERIAL. ALL rts. reserv.
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     96001541589; TVI 96008
Title: CpG DNA: A pathogenic factor in systemic lupus erythematosus?
Author(s): Krieg, A.M. [Univ. of lowa College of Medicine, lowa City, IA (United States)]
Journal Name: Journal of Clinical Immunology
Source: Journal Name: Journal of Clinical Immunology; Journal Volume: 15;
Journal Issue: 6; Other Information: PBD: Nov 1995 ISSN: 0271-9142
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OSTI Number(s): OSTI ID 182167 Contract Number (Non-DOE): Journal ID JCIMDO; Other CNN Grant Page 16

Publication Date: 19951101 Availability Date: 20091216

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     R29- AR42556- 01: TRN TRN 96000734- 0001
Language: English
Medium Dimensions: Medium X; Size: pp. 284-292
Author(s): Krieg, A.M. [Univ. of Iowa College of Medicine, Iowa City, IA (United States)]
                (Item 2 from file: 103)
 2/3. K/2
DIALOG(R) FILE 103: ENERGY SCITEC
(c) 2010 CONTAINS COPYRIGHTED MATERIAL. ALL rts. reserv.
             NLM: NLM: 91 - 01863; EDB- 91 - 095904
07552420
Title: Association of murine lupus and thymic full-length endogenous
     retroviral expression maps to a bone marrow stem cell
Author(s): Krieg, A.M.; Gourley, M.F.; Steinberg, A.D. (National
Institutes of Health, Bethesda, MD (USA))
Journal Name: Journal of Immunology
Source: Journal Name: Journal of Immunology; (USA); Journal Volume: 146:9
Coden: JOJ MA ISSN: 0022-1762
Sponsoring Organization:
                                  Not Available
Publication Date: 19910501
Availability Date: 20091216
CSTI Number(s): CSTI 1D 5760970
Contract Number (DCE): None
Language: English
Medium Dimensions: Medium X; Size: Pages: 3002-5
Author(s): Krieg, A.M...
 2/3, K/3
               (Item 1 from file: 8)
DIALOG(R) File 8: Ei Compendex (R)
(c) 2010 Elsevier Eng. Info. Inc. All rts. reserv.
                  E. I. COMPENDEX No: 20091111956701
   Immunother apeutic applications of QpG oligodeoxynucleotide TLR9 agonists
  Vollmer, Jorg; Krieg, Arthur M
Corresp. Author/Affil: Krieg, A.M.: Pfizer Inc., 620 Memorial
Drive, Cambridge, MA 02139, United States
Corresp. Author email: arthur.krieg@fizer.com
Advanced Drug Delivery Peviews ( Adv. Drug Deliv. Rev. ) (Netherlands)
2009, 61/3 (195-204)
  Publication Date: 20090328
Publisher: Elsevier
   CODEN: ADDRE ISSN: 0169-409X
   Publisher Item Identifier: S0169409X09000039
   DOI: 10.1016/j.addr.2008.12.008
Document Type: Review, Journal
  Document Type: Review, Journal Record Type:
Language: English Summary Language: English
                                              Record Type: Abstract
  Number of References: 205
   Corresp. Author/Affil: Krieg, A.M.: Pfizer Inc., 620 Memorial
Drive. Cambridge, MA 02139, United States
2/3, K/4 (Item 2 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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Page 17

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E. I. COMPENDEX No: 20071110490747

0017639259

Toll-free vaccines? Krieg, Arthur M

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  Corresp. Author/Affil: Krieg, A.M.: Coley Pharmaceutical Group,
Inc., 93 Worcester Street, Wellesley, MA 02481, United States
  Corresp. Author email: akrieg@coleypharma.com
  Nature Biotechnology (Nat. Biotechnol.) (United States) 2007, 25/3
(303 - 305)
  Publication Date: 20070321
  Publisher: Nature Publishing Group
  CODEN: NABIF ISSN: 1087-0156 eISSN: 1546-1696
  Publisher Item Identifier: NBT0307303
  DOI: 10.1038/nbt 0307-303
  DO: 10. 1036/10301/-3035
Document Type: Short Survey; Journal Record Type: Abstract
Treatment: T; (Theoretical)
Language: English Summary Language: English
Number of References: 11
  Corresp. Author/Affil: Krieg, A.M.: Coley Pharmaceutical Group,
Inc., 93 Worcester Street, Weilesley, MA 02481, United States
 2/3. K/5
              (Item 1 from file: 149)
DIALOG(R) File 149: TGG Health&Wellness DB(SM)
(c) 2010 Gale/Cengage. All rts. reserv.
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Toll-like receptor 9 (TLR9) agonists in the treatment of cancer. (Clinical
  report)
Krieg, A.M
Oncogene, 27, 2, 161(7)
Jan 7,
2008
DCCUMENT TYPE: Clinical report PUBLICATION FORMAT: Magazine/Journal
ISSN: 0950-9232 LANGUAGE: English RECORD TYPE: Citation TARGET AUDIENCE: Academic
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Completed processing all files
              332
                    Sĕ
                0
                    ?TOGTOGTTTTGTOGTTTTTTTCGA?
      S8
                    S6 AND (?TOGTOGTTTTGTCGTTTTTTCGA?)
? ds
```

```
Set
         I t ems
                  Description
S1
S2
S3
S4
S5
S6
S7
                   AU='KRIEG, A.M.'
                  RD (unique items)
E23-E24
              8
                  RD (unique items)
              8
              Ō
                   S4 AND TOGTOGITTTGTOGITTTTTOGA
            332
                   E4- E7
              0
                  S6 AND (TOGTOGTTTTGTOGTTTTTTTCGA)
S8
? ds
              0
                   S6 AND (?TOGTOGTTTTGTOGTTTTTTTOGA?)
Set
S1
S2
S3
S4
S5
S6
S7
S8
                   Description
         I t ems
                   AU='KRIEG, A.M.'
                  RD (unique items)
E23-E24
              8
                   RD (unique items)
              8
                   S4 AND TOGTOGITTTGTCGTTTTTTCGA
              0
            332
                   E4- E7
  7 0 S6 AND (TOGTOGITTTGTOGITTTTTCGA)
B 0 S6 AND (?TOGTOGITTTGTOGITTTTTCGA?)
sTOGTOGITTTGTOGITTTTTTOGA
       S9
                    TOGTOGTTTTGTOGTTTTTTTTOGA
                 2
    TOGTOGTTTTGTOGTTTTTTTTOGA
  s
      S10
                    TOGTOGITTTGTOGITTTTTTTCGA
? rd
>>>Duplicate detection is not supported for File 393.
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
                    RD (unique items)
      S11
                 2
? t s11/3, k/1-2
>>>KWC option is not available in file(s): 399
 11/3, K/1
                (Item 1 from file: 357)
DIALOG(R) File 357: Derwent Biotech Res.
(c) 2010 Thomson Reuters. All rts. reserv.
0354257 DBR Accession No.: 2004-26549
                                                 PATENT
Identifying agonists of Toll-like receptor (TLR) signaling activity, useful
     therapeutically or prophylactically, comprises contacting an PPM 8226
     cell that expresses a TLR with a test compound and measuring TLR
     signaling activity - toll-like receptor and antagonist and agonist for
use in disease therapy
AUTHOR: VOLLMER J; JURK M,
                                 LI PFORD G B; SCHETTER C; FORSBACH A;
                                                                                KRI EG
     A M
PATENT ASSIGNEE: COLEY PHARM GWBH; COLEY PHARM GROUP INC 2004
PATENT NUMBER: WD 200494671 PATENT DATE: 20041104 WPI ACCESSION NO.:
     2004-795573 (200478)
PRI ORI TY APPLI C. NO.: US 464588 APPLI C. DATE: 20030422
NATI CNAL APPLI C. NO.: WO 2004US12788 APPLI C. DATE: 20040422
LANGUAGE: English
                                      TOGTOGITTTGTOGITT (SEQ ID NO:1),
... ABSTRACT:
                base
                         sequence
                                                                 NO:
         5' - TOGTOGTTTTGAOGTTTTGTOGTT- 3'
                                                (SEQ
                                                         I D
                                                                          139)
         TOGTOGITTTGTOGITTTTTTOGA
                                         - 3'
                                                   (SEQ
                                                           ΙD
                                                                  NO:
                                                                           140)
     5' - TOGTOGTTTOGTOGTT-3' (SEQ DD NO: 141), 5' - TOGTOGTTTOGTOGTTTTG
     TOGTT-3...
 11/3, K/2
                (Item 2 from file: 357)
```

DIALOG(R) File 357: Der went Biotech Res. (c) 2010 Thomson Reuters. All rts. reserv.

0351655 DBR Accession No.: 2004-23947 PATENT Inducing immune response in subject useful for preventing and/or treating viral infection e.g., human papilloma virus infection, involves topically administering oil-in-water emulsion and immunostimulatory nucleic acid, to subject - OpG immunostimulant oligonucleotide transfer and expression in host cell for nucleic acid vaccine and gene therapy AUTHOR: DAVIS H L; MCCLUSKIE M J PATENT ASSIGNEE: COLEY PHARM GROUP LTD 2004

PATENT NUMBER: WO 200487203 PATENT DATE: 20041014 WPI ACCESSION NO.:

2004-737575 (200472) PRI CHI TY APPLI C. NO.: W 461903 APPLI C. DATE: 20030410 NATI CNAL APPLI C. NO.: WO 2004I B1371 APPLI C. DATE: 20040401 LANGUAGE: English

... ABSTRACT: has the nucleotide sequence of 5'-tcgtctttttgtcgttttgtcgtt-3', Similar in the nucleotice sequence of 5 -teglectiff ggifting (gifts, 5) 5 -teglecylting ggifting (gift-3), 5 -teglecyltiff ggifting (gift), 5, teglecylting (gift), 5 -teglecylting (gift), 5 -teglecylting (gift), 6 -tegle cl ass... ? ds

Set It ems Description AU= KRLEG. A. M. S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 RD (unique items) E23-E24 8 8 RD (unique items)
S4 AND TOGTOGTTTTGTOGTTTTTTTCGA 0 33Ž Ĕ4- E7 0 S6 AND (TOGTOGITTTGTOGITTTTTTOGA) S6 AND (?TOGTOGITTTGTOGITTTTTTOGA?) TOGTOGTTTTTTTOGA TOGTOGETTTTGTOGETTTTTTTCGA

RD (unique items)

S11

BJ; CF; CG; CI; CM; GA; GN; GQ; GW/ ML; MR; NE; SN; TD; TG